IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A processing apparatus, comprising:

a transfer chamber;

a plurality of processing chambers for processing therein a substrate to be processed, the processing chambers being coupled to the transfer chamber;

a number of electrostatic chucks which are provided in the processing chambers, to electrostatically adsorb the substrate to be processed thereto;

a transfer mechanism installed in the transfer chamber to transfer the substrate to be processed between the processing chambers and the transfer chamber; and

a monatomic nitrogen atom supply unit for supplying dissociated monatomic nitrogen atoms into the processing chambers.

Claim 2 (Original): A processing apparatus, comprising:

a transfer chamber;

a first processing chamber coupled to the transfer chamber, the first processing chamber performing therein a first process on a substrate to be processed;

a second processing chamber coupled to the transfer chamber, the second processing chamber performing therein a second process on the substrate to be processed;

a transfer mechanism installed in the transfer chamber for sequentially transferring the substrate to be processed into the first and second processing chamber;

electrostatic chucks provided in the first and the second processing chambers, the electrostatic chucks electrostatically adsorbing thereto the substrate to be processed; and

a monatomic nitrogen atom supply unit for supplying dissociated monatomic nitrogen atoms into the first and second processing chamber.

Preliminary Amendment

Claim 3 (Original): The processing apparatus of claim 1, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms to a close

proximity of the electrostatic chucks.

Claim 4 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms to a close

proximity of the electrostatic chucks.

Claim 5 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit supplies the dissociated monatomic nitrogen atoms into the transfer

chamber.

Claim 6 (Original): The processing apparatus of claim 2, further comprising a

controller for controlling a supply timing of the dissociated monatomic nitrogen atoms from

the monatomic nitrogen atom supply unit.

Claim 7 (Original): The processing apparatus of claim 2, wherein the monatomic

nitrogen atom supply unit includes a pipe communicating with the processing chambers, an

N₂ gas supply source for supplying an N₂ gas through the pipe, and an energy supply unit for

applying energy to the N₂ gas in the pipe or in the processing chambers to convert the N₂ gas

into the dissociated monatomic nitrogen atoms.

Claim 8 (Original): The processing apparatus of claim 6, wherein the energy supply

unit has an ultraviolet irradiation unit for irradiating ultraviolet ray to the N₂ gas.

Claim 9 (Original): The processing apparatus of claim 6, wherein the pipe has a dielectric portion, and the energy supply unit has an induction coil wound around the

dielectric portion and a high frequency power supply for applying a high frequency to the

induction coil.

Claim 10 (Original): The processing apparatus of claims 6, wherein the energy

supply unit applies energy which is higher than the dissociation energy of the N₂ gas and

lower than the ionization energy of the N₂ gas, to the N₂ gas.

Claim 11 (Currently Amended): A processing method employing a processing

apparatus, which includes a transfer chamber, a plurality of processing chambers coupled to

the transfer chamber, to process therein a target substrate, and a number of electrostatic

chucks provided in the processing chambers to electrostatically adsorb the target substrate

thereto, comprising the steps of:

transferring the target substrate from the transfer chamber into one of the processing

chambers by using a transfer mechanism;

placing the target substrate on an electrostatic chuck displaced in said one processing

chamber;

applying a direct current to an electrode embedded in the electrostatic chuck to

electrostatically absorb adsorb the target substrate to the electrostatic chuck;

processing the target substrate in said one processing chamber, to thereby obtain a

processed substrate;

terminating the application of the direct current to the electrostatic chuck;

Preliminary Amendment

supplying dissociated monatomic nitrogen atoms into said one processing chamber to

remove charge on the electrostatic chuck; and

transferring the processed substrate into the transfer chamber using the transfer

mechanism.

Claim 12 (Original): The processing method of claim 11, wherein the dissociated

monatomic nitrogen atoms are supplied near the electrostatic chucks.

Claim 13 (Original): A processing method using a processing apparatus, which

includes a transfer chamber, a first processing chamber coupled to the transfer chamber, for

performing a first process on a target substrate therein, a second processing chamber coupled

to the transfer chamber for performing a second process on the target substrate therein, and a

first and second electrostatic chucks provided in the first and second processing chambers,

respectively, to electrostatically adsorb the substrate thereto, comprising the steps of:

transferring the target substrate from the transfer chamber into the first processing

chamber using a transfer mechanism;

placing the target substrate on the first electrostatic chuck in the first processing

chamber;

applying a direct current to an electrode of the first electrostatic chuck to

electrostatically adsorb the target substrate to the first electrostatic chuck;

performing a first process on the target substrate in the first processing chamber to

thereby obtain a processed substrate;

terminating the application of the direct current to the first electrostatic chuck;

supplying dissociated monatomic nitrogen atoms into the first processing chamber to

remove charge on the first electrostatic chuck;

Application No. 10/814,258 Inventor: Takashi ITO Preliminary Amendment

transferring the processed substrate into the transfer chamber using the transfer

mechanism;

transferring the processed substrate from the transfer chamber into the second

processing chamber;

placing the processed substrate on the second electrostatic chuck in the second

processing chamber;

applying the direct current to an electrode of the second electrostatic chuck to

electrostatically adsorb the processed substrate to the second electrostatic chuck; and

performing a second process on the processed substrate in the processed second

processing chamber.

Claim 14 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are supplied near the electrostatic chucks.

Claim 15 (Original): The processing method of claim 13, further comprising the step

of supplying the dissociated monatomic nitrogen atoms into the transfer chamber.

Claim 16 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are produced by irradiating ultraviolet ray onto N₂ gas.

Claim 17 (Original): The processing method of claim 13, wherein the dissociated

monatomic nitrogen atoms are produced by applying energy, generated during application of

a high frequency power to an induction coil, onto N₂ gas.

Claim 18 (Currently Amended): The processing method of claim 13, wherein the dissociated monatomic nitrogen atoms are produced by applying energy, higher than dissociation energy of N₂ and lower than ionization energy of N₂, to the N₂ gas. 12. The processing method of claim 10, wherein the dissociated monatomic nitrogen atoms are supplied near the electrostatic chucks.

Claim 19 (Original): A processing apparatus, comprising:

a processing chamber for processing therein a substrate to be processed;

an electrostatic chuck installed in the processing chamber, for adsorbing the substrate to be process thereto; and

a monatomic N atom supply unit for supplying dissociated monoatomic N atoms into the processing chamber.

Claim 20 (Currently Amended): A processing method employing a processing apparatus, which includes a processing chamber for processing a substrate to be processed and an electrostatic chuck for adsorbing the substrate to be processed thereto, comprising the steps of:

mounting the substrate to be processed on the electrostatic chuck disposed in the processing chamber; and

supplying dissociated monatomic N atoms into the processing chamber.